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(54) HYDRAULIC CALCIUM PHOSPHATE CEMENT COMPOSITION

(57)Abstract:

PURPOSE: To obtain a cured body which rapidly cures at about neutral pH and has high strength and excellent bio-affinity by constituting the cured matter of the cement compsn. contg. a specific powder material mixture consisting of α type calcium ternary phosphate and calcium secondary phosphate and a hardening liquid and further compounding calcium primary phosphate with this compsn.

CONSTITUTION: This hydraulic calcium phosphate cement compsn. is constituted of the cement compsn. contg. the powder material mixture of 1.400 to 1.498 Ca/P molar ratio of the α type calcium ternary phosphate and calcium secondary phosphate and the hardening liquid. In addition, the calcium primary phosphate is incorporated into the above-mentioned powder material mixture and/or hardening liquid. The curing is accelerated by further incorporating water-soluble sodium salts in addition to the calcium primary phosphate into the material mixture and/or hardening liquid. The above-mentioned curing liquid is not particularly limited and is exemplified by, for example, water.

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